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(54) FUEL CELL WITH SOLID ELECTROLYTE

(57)Abstract:

PURPOSE: To have a fuel cell of high voltage, low current type by coupling together unitary cells in series, each of which consists of an oxygen electrode, solid electrolyte, and fuel electrode laminated on a gas penetrative base.

CONSTITUTION: Every three unitary cell units 18 consists of unitary cells 6a-6d with different diaphragms laminated concentrically. The coupling part of these unitary cell units lie on one plane, and these unitary cells 6a-6d are coupled together in series through a conductor 19 specially used for coupling, to constitute a fuel cell stack 16. In this constitution, the fuel F and air A flow through a flow path between every other unitary cells to come in contact with the fuel side electrode 4 and

oxygen side electrode 3. Fuel stacks 16 are arranged at a constant spacing on a base board 7, and an air lead-in pipe 11, fuel supply pipe 12, and fuel exhaust pipe 13 are arranged below this base board 7. A fuel cell of high pressure, low current type is provided.

